



## **Consistent Data Communication Materials**

February 28, 2002



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- **Why Consistent Data?**
- **Consistent Data Vision**
- **Next Steps**
- **Appendix**





# Why Consistent Data?

- **Customers want SFA to provide consistent answers**
  - Every web site, call center, etc. should provide the same data
    - Example: A student's current home address on DLSS matches their home address on NSLDS and all other SFA systems
  - If inconsistencies exist, a single system of record should rule
- **Providing consistent answers requires SFA to have consistent data for all SFA data entities shared across multiple systems**
  - Staff and Systems (e.g., Siebel) must know where to go for the most current and accurate data
  - Data across systems must be in synch



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# Consistent Data Vision - 2004

**2004**

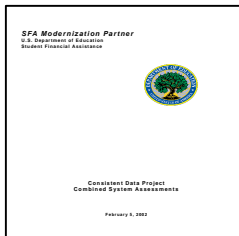
**Consistent Data Vision - 2004**

**Consistent Data Vision –  
2004 (Key Entities)**

- **Consistent Data Vision 2004 Charts – Gives guidance on system-of-record for key shared data entities and where copies should exist.**
  - “First cut” of consistent data 2004 vision
  - Based on Target State Vision & modernization plans
  - Identifies target systems-of-record for major entities
  - Identifies key lifecycle states and subtypes of the major entities
  - Identifies data copies and update ability residing outside of systems-of-record
  - Confirmed and refined by bottom up analysis
  - Already being used by teams like Consistent Answers for guidance
- **Consistent Data Vision 2004 (Key Entities) – Describes Key Entities in more detail with a list of attributes (information categories)**
  - Confirmed and refined by bottom up analysis



# System Assessments and Data Dictionaries



CPS  
PEPS  
DLSS/eServicing  
DLCS  
DMCS  
NSLDS

COD  
FMS  
eCB

## System Assessments



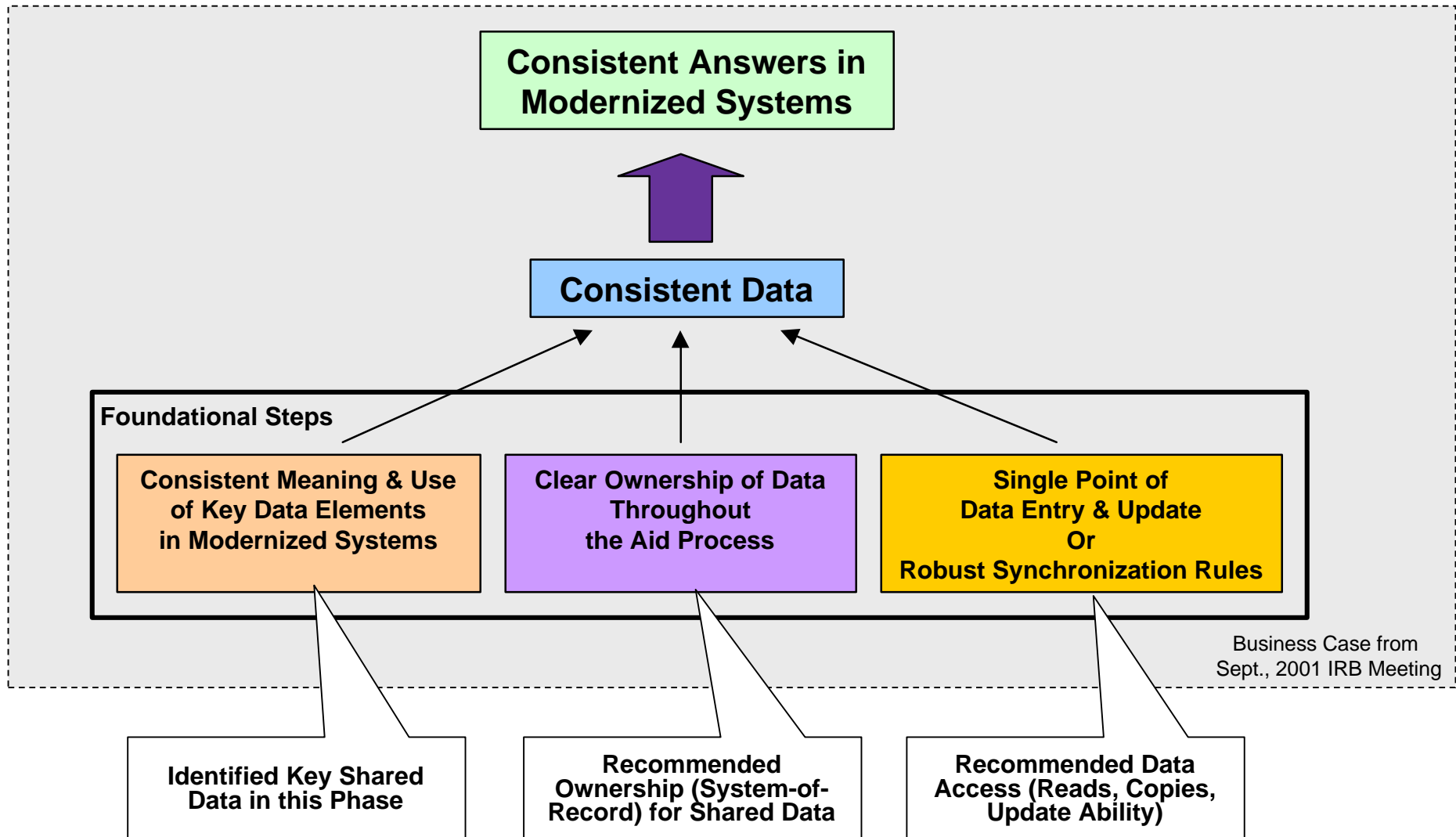
## Dictionaries (Shared Data)

- **System Assessments are functional summaries with a shared data focus.**
  - Use to help understand system functionality and interfaces to other systems at a high level.
  - Were reviewed with SME's (SFA & Mod Partner).
  - Were used to refine the Consistent Data Vision – 2004 Charts.
- **Data Dictionaries contain shared data for each system.**
  - Used to identify what physical tables/files shared data is stored in.
  - Were reviewed with SME's (SFA & Mod Partner) as feasible.





# Consistent Data Project – Initial Accomplishments



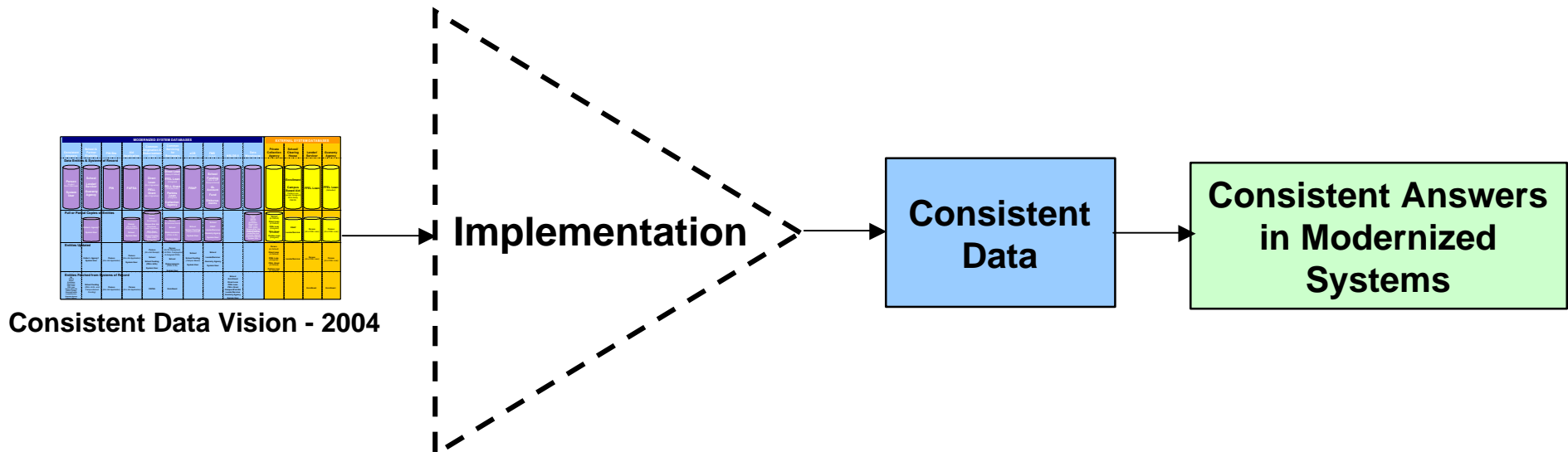


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## Next Steps - Implementation Strategy



**The Implementation Strategy is to have teams with System-of-Record responsibility develop requirements for data exchanges and synchronization rules with other systems that need copy or update abilities. They will also work with the CIO Enterprise Data Architecture Team and others to ensure the Consistent Data principles are followed.**

**The CIO Enterprise Data Architecture Team will keep an enterprise focus on shared data to ensure Consistent Data objectives are achieved.**



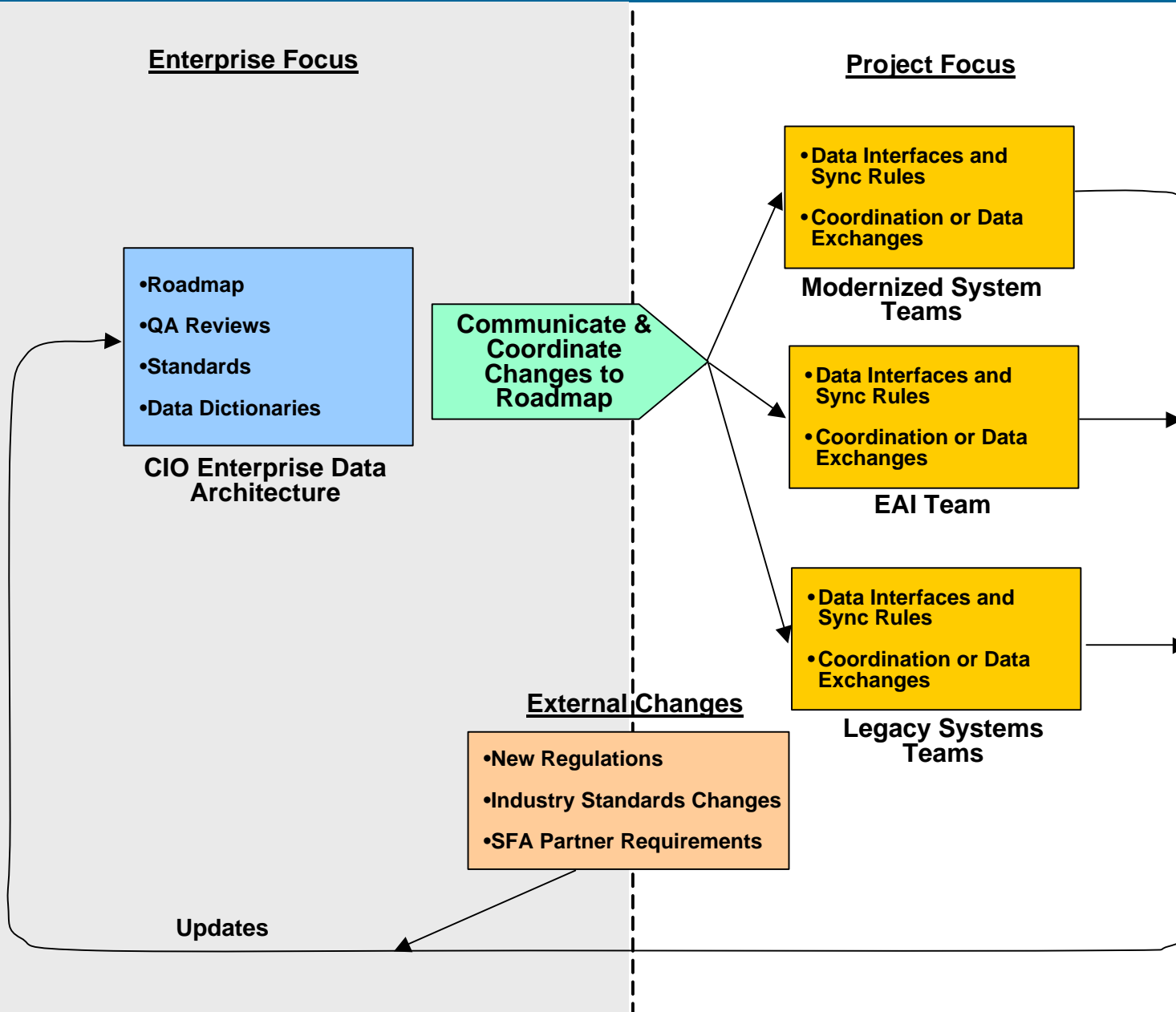


## Next Steps - Implementation Responsibilities

- **CIO Enterprise Data Architecture Team**
  - Keep an enterprise focus on data strategy, data exchanges and synchronization.
  - Do QA reviews on designs and pre-production shared data movements to ensure Consistent Data principles are followed.
- **Team with System-of-Record Responsibilities**
  - Coordinate other development and/or support teams for access to shared data and synchronization rules.
- **EAI Team**
  - Work closely with all modernized system teams to ensure integrity of data exchanges and synchronization.
- **SFA modernized systems teams and SFA executives**
  - Encourage and enforce the principles of consistent data across the modernized systems.



# Consistent Data Roadmap Communication & Maintenance





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# Consistent Data Vision - Definitions

- **S = System of Record**
  - The system is the authoritative source of an entity.
  - The system has the responsibility for data quality of an entity. The system owner is the technical steward for the entity. Responsibilities of the System-of-Record / Technical Steward follow on the next slide.
  - System-of-Record has create, read, update and delete authority for the entity.
- **C = Copy**
  - A system that has a read only copy of the entity from the system-of-record. A copy is made for performance reasons and must be refreshed from the system-of-record.
- **U = Update**
  - If feasible, some systems will not keep their own copy of shared data, they'll just reference the system-of-record and update the data as needed. The system can directly create, read, update and delete an entity in the system-of-record.
- **R = Read**
  - If feasible, some systems will not keep their own copy of shared data, they'll just reference the system-of-record and read the data as needed.
- **CU = Update ability on a Copy**
  - A system that has a copy of the entity which can be read, updated and deleted. A new instance of the entity can also be created in the system If technically feasible. The system of record must be informed of all updates (create, update, delete).



# Consistent Data System Assessment Contacts

<i>Sys</i>	<i>Chan</i>	<i>Sys/Prog Mgr</i>	<i>Contractor</i>	<i>COTR</i>	<i>Primary Contact</i>	<i>SME(s)</i>	<i>Other SFA</i>	<i>Mod Partner</i>
NSLDS	CIO	Lynn Alexander	Raytheon	Susan Morgan	Lynn Alexander	Susan Morgan		Shyam Pai
PEPS	School	Rana O'Brien	CSC/CEMI	John McGonigal	Chris Hill	Chris Hill		
DMCS	Student	Sybil Phillips	Raytheon	George Allen	Brian Sullivan	Brian Sullivan		Kerry Trehan/Red Feldman
DLSS/eServicing	Student	Dan Hayward	ACS	Paula Dyer	Dan Hayward	Allen Producers		Kerry Trehan/Red Feldman
DLCS	Student	Denise Leifeste	EDS	Richard Wheeler	Richard Wheeler	Bill Burns/Mike Peregory	Corwin Jennings	Kerry Trehan/Red Feldman
CPS	Student	Jeanne Saunders	Accenture	Nancy Reynolds	Nancy Reynolds	Jeanne Saunders	Frank Kidd	
eOB	School	Richard Coppage	Accenture	Richard Coppage	Milton Thomas	Rich Bennett		Carrie Marks
OOD	School	Rosemary Beavers	Accenture	Steve Wingard	Paul Hill	Paul Hill		Bruce Kingsley
FMS	CFO	Paul Stonner	Accenture	Carol Siefert	Paul Stonner	Jon Bollinger	Cynthia Heath	Todd Elliott